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89S Adenosine bronchoconstriction in asthma: investigations into its possible mechanism of action: *W. H. Ng, R. Polosa & M. K. Church*
99S The role of platelet activating factor in allergic respiratory disease: *C. P. Page*

**Free communications**
107S Contractions to 5-hydroxytryptamine in human coronary artery and human saphenous vein: *M. Borton, M. Neligan, F. Wood, P. Dervan, K. Goggins & J. R. Docherty*
109S The β-adrenoceptor antagonist carteolol and its metabolite 8-hydroxycarteolol have different intrinsic sympathomimetic activities: *J. R. Jasper, M. C. Michel & P. A. Insel*
112S Differential regulation of human cardiac β-adrenergic and muscarinic receptors by chronic β-adrenoceptor antagonist treatment: *S. Motomura, N. M. Deighton, H.-R. Zerkowski, M. Khamssi & O.-E. Brodde*
115S Phorbol-12,13-dibutyrate antagonizes the $\alpha_1$-adrenoceptor-mediated positive inotropic effect in the rabbit ventricular myocardium: *M. Endoh, I. Otomo & I. Norota*
118S Hormonal regulation of $G_{i\alpha}$ level and adenylyl cyclase responsiveness: *C. Reithmann, P. Gierschik, K. Werdan & K. H. Jakobs*
121S Different desensitization mechanisms of two $\alpha_1$-adrenoceptor subtypes in the contraction of rabbit aorta: *E. Suzuki, G. Tsujimoto & K. Hashimoto*
125S The effect of reserpine, desipramine and thyroid hormone on $\alpha_{1a}$- and $\alpha_{1b}$-adrenoceptor binding sites: Evidence for a subtype-specific regulation: *G. Hanft & G. Gross*
128S Effect of hypo- and hyperthyroidism on binding of [$^3$H]-nitrendipine to myocardial and brain membranes: *C. Kosinksi, G. Gross & G. Hanft*

131S Desensitization and down-regulation of brain $\alpha_2$-adrenoceptors by centrally acting antihypertensive drugs: *C. A. Hamilton, M. A. Yakubu, C. A. Howie, E. Jardine & J. L. Reid*

135S Effect of erythropoietin on parameters of sympathetic nervous activity in patients undergoing chronic haemodialysis: *E. Fritschka, H.-H. Neumayer, S. Seddighi, H.-M. Thiede, A. Distler & Th. Philipp*

139S Effects of insulin on human β-adrenoceptors: *G. Sager*

142S $\beta_2$-adrenoceptor up-regulation in relation to cAMP production in human lymphocytes after physical exercise: *S. J. Graafsma, L. J. H. van Tits, P. H. G. M. Willems, M. P. C. Hectors, J. F. Rodrigues de Miranda, J. J. H. H. M. De Pont & Th. Thien*

145S The relationship between adrenaline and $\beta_2$-adrenoceptors on human lymphocytes: *S. J. Graafsma, M. P. C. Hectors, L. J. H. van Tits, J. F. Rodrigues de Miranda & Th. Thien*

148S Cyclic AMP antagonizes mitogen-induced accumulation of inositol phosphates in human peripheral mononuclear leucocytes *in vitro*: *L. J. H. van Tits, A. Daul, H. Grosse-Wilde & O.-E. Brodde*

150S Effect of lymphokines on β-adrenoceptor function of human peripheral blood mononuclear cells: *A. J. M. van Oosterhout & F. P. Nijkamp*

153S T cell mediated induction of bronchial hyperreactivity: *J. Garssen, H. van Loveren, H. van der Vliet & F. P. Nijkamp*

156S Neutrophils increase histamine contractions in pig coronary artery: a role for lipoxygenase products: *D. van Heuven-Nolsen, G. A. M. Ten Have & F. P. Nijkamp*

159S Parainfluenza-3 induced hyperreactivity of the guinea pig trachea coincides with an increased number of broncho-alveolar cells: *G. Folkerts, M. Janssen & F. P. Nijkamp*

162S Alterations of neuroreceptors in nasal hyperreactivity: *Y. J. B. van Megen, J. F. Rodrigues de Miranda & A. B. M. Klaassen*

165S Prostaglandin $E_2$ inhibits and indomethacin enhances noradrenaline release in isolated kidneys of adult spontaneously hypertensive rats: *L. C. Rump, K. Wilde & P. Schollmeyer*

168S Modulation of noradrenaline release from rat cortical kidney slices: effects of angiotensin I and II: *L. C. Rump, M. J. Schuster, K. Wilde & P. Schollmeyer*

171S Effect of calcium and β-adrenoceptor antagonists on β-adrenoceptor density and $G_{s\alpha}$ expression in human atria: *C. R. Jones, P. Fandeleur, B. Harris & F. R. Bühler*

174S Receptor modification in the brains of spontaneously hypertensive and Wistar-Kyoto rats: regionally specific and selective increase in cerebellar $\beta_2$-adrenoceptors: *C. R. Jones, J. M. Palacios, D. Hoyer & F. R. Bühler*